In the Claims:

1. (currently amended) A method for classifying a remote method invocation from a client system that initiates connections to a remote server object using a client and underlying remote method invocation transport code, the method comprising:

detecting when a connection carrying high value data for the remote method invocation is created;

using a custom socket factory to obtain flow information associated with the detected connection, and to generate a socket therefore, the socket having a socket number associated therewith;

using a side channel to communicate flow information, including the socket number, associated with the detected connection to a classifying router; and

incorporating this flow information into the a differentiated services classification subsystem of the classifying router.

2. (original) The method of claim 1, wherein detecting comprises:

providing a stub to calling applications;

detecting when applications call the stub; and

executing an RMI routine based on a call by an application.

3. (cancelled)

4. (currently amended) The method of claim 1, wherein the side channel is implemented as a ~~Java~~ servlet.

5. (original) The method of claim 1, wherein incorporating includes:

using the flow information to determine a differentiated services classification for the connection; and

marking traffic delivered to the connection by the classifying router based on the classification.

6. (currently amended) The method of claim 1, further comprising:

detecting ~~the~~ a identity of the client making the remote <u>method invocation</u> ~~procedure call~~, the flow information further containing this detected identity.

7. (currently amended) An apparatus for classifying a remote method invocation from a client system that initiates connections to a remote server object using a client and underlying remote method invocation transport code, the apparatus comprising:

a module configured to detect when a connection carrying high value data for the remote method invocation is created;

a module configured to use a custom socket factory to obtain flow information associated with the detected connection, and to generate a socket therefore<u>, the socket having a socket number associated therewith</u>;

a module configured to use a side channel to communicate flow information, including the socket number, associated with the detected connection to a classifying router; and

a module configured to incorporate this flow information into ~~the~~ a differentiated services classification subsystem of the classifying router.

8. (original) The apparatus of claim 7, wherein the detecting module is further configured to:

provide a stub to calling applications;

detect when applications call the stub; and execute an RMI

routine based on a call by an application.

9. (canceled)

10. (currently amended) The apparatus of claim 7, wherein the side channel is implemented as a ~~Java~~ servlet.

11. (original) The apparatus of claim 7, wherein the incorporating module is further

configured to:

use the flow information to determine a differentiated services classification for the

connection; and

mark traffic delivered to the connection by the classifying router based on the

classification.

12. (currently amended) The apparatus of claim 7, wherein the side channel module is further

configured to detect ~~the~~ a identity of the client making the RMI call, the flow information further

containing this detected identity.